

Figure 1

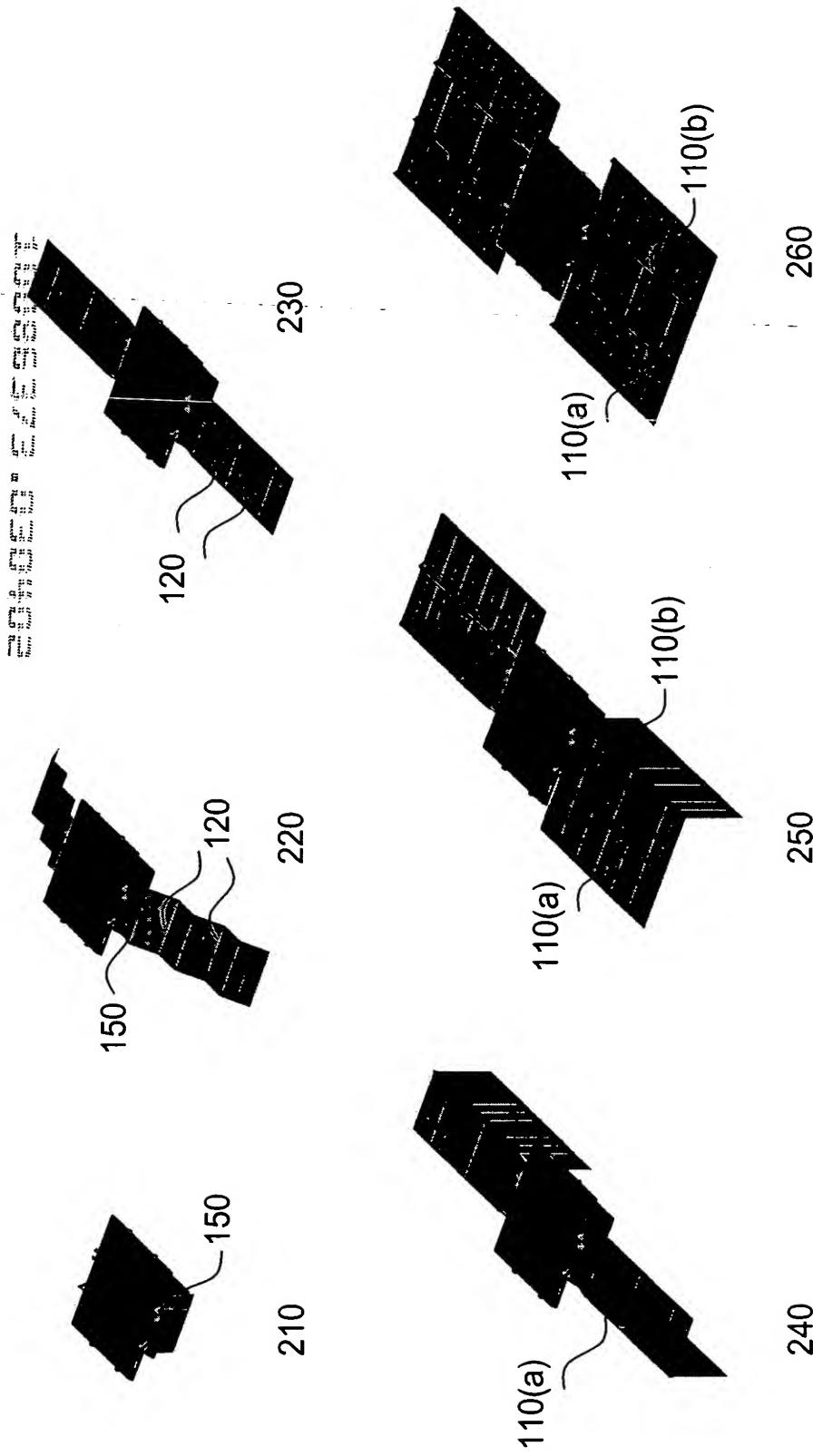


Figure 2

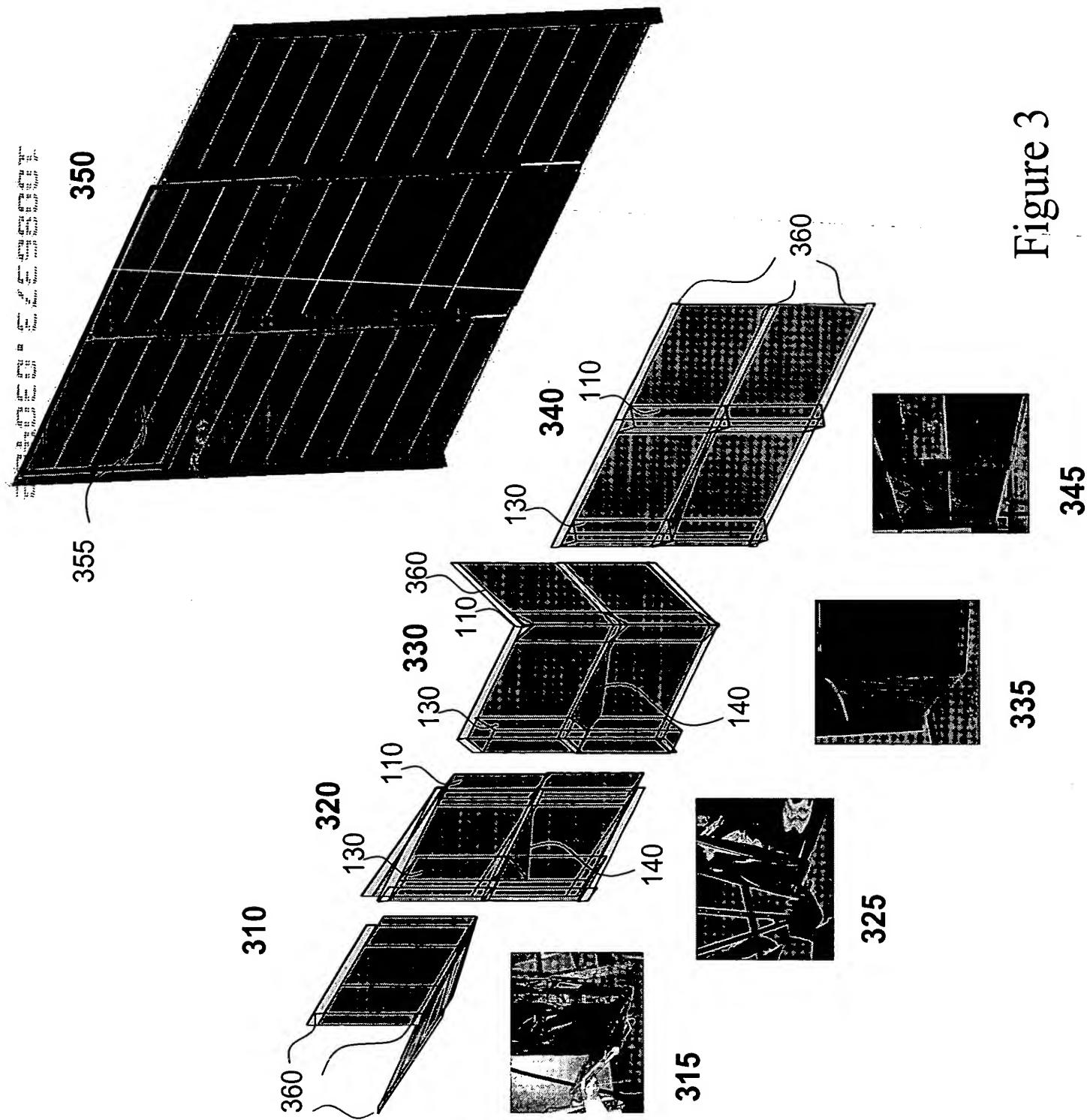


Figure 3

345

335

Figure 4

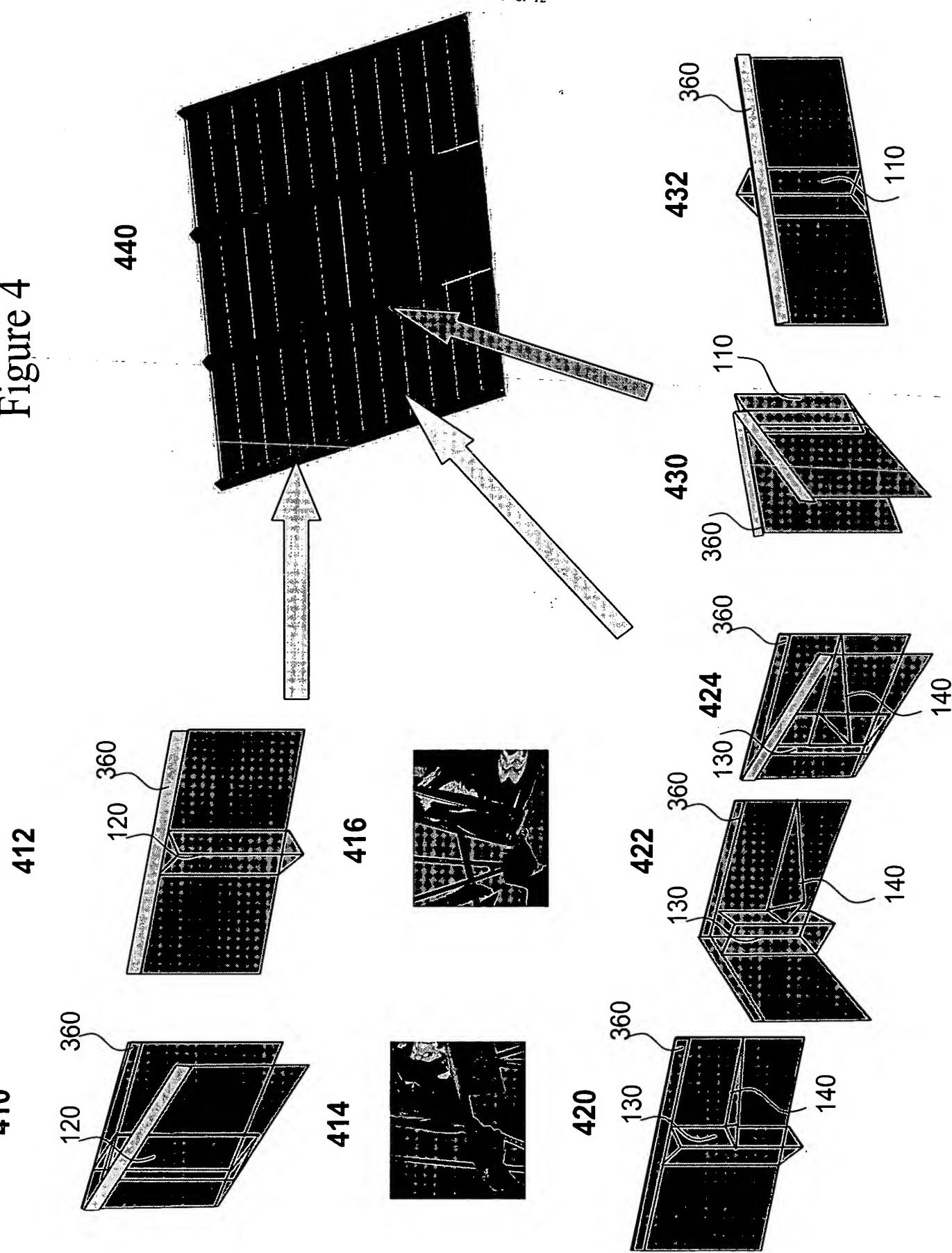
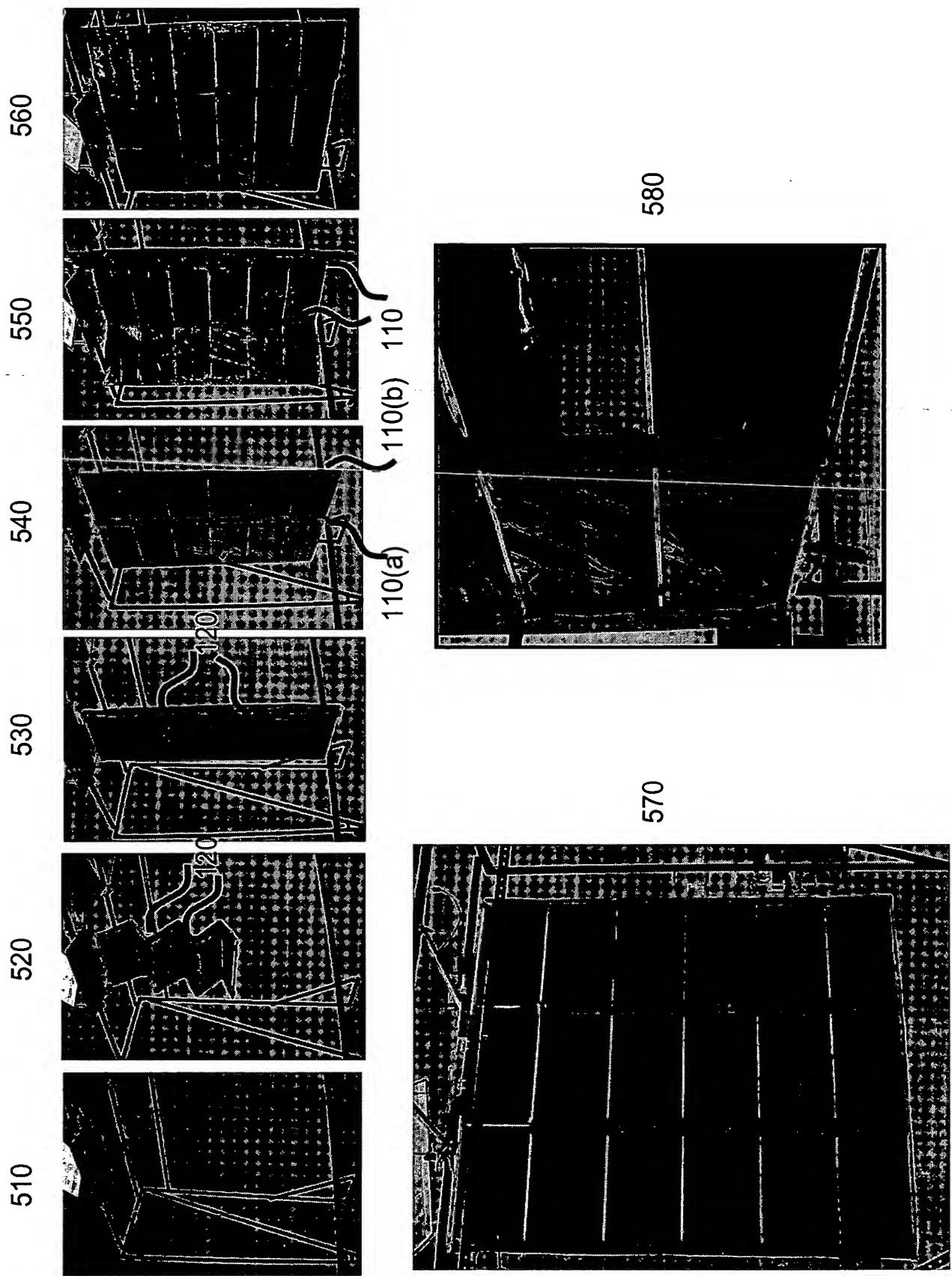


Figure 5



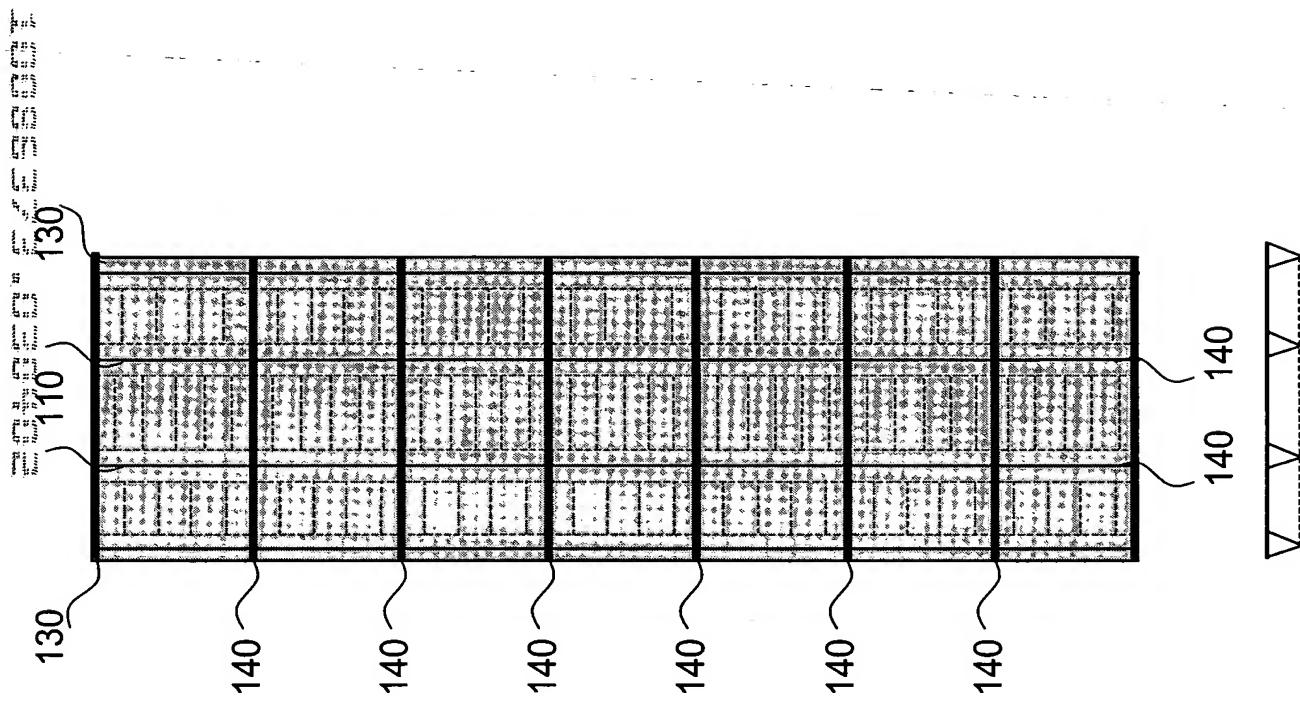


Figure 6

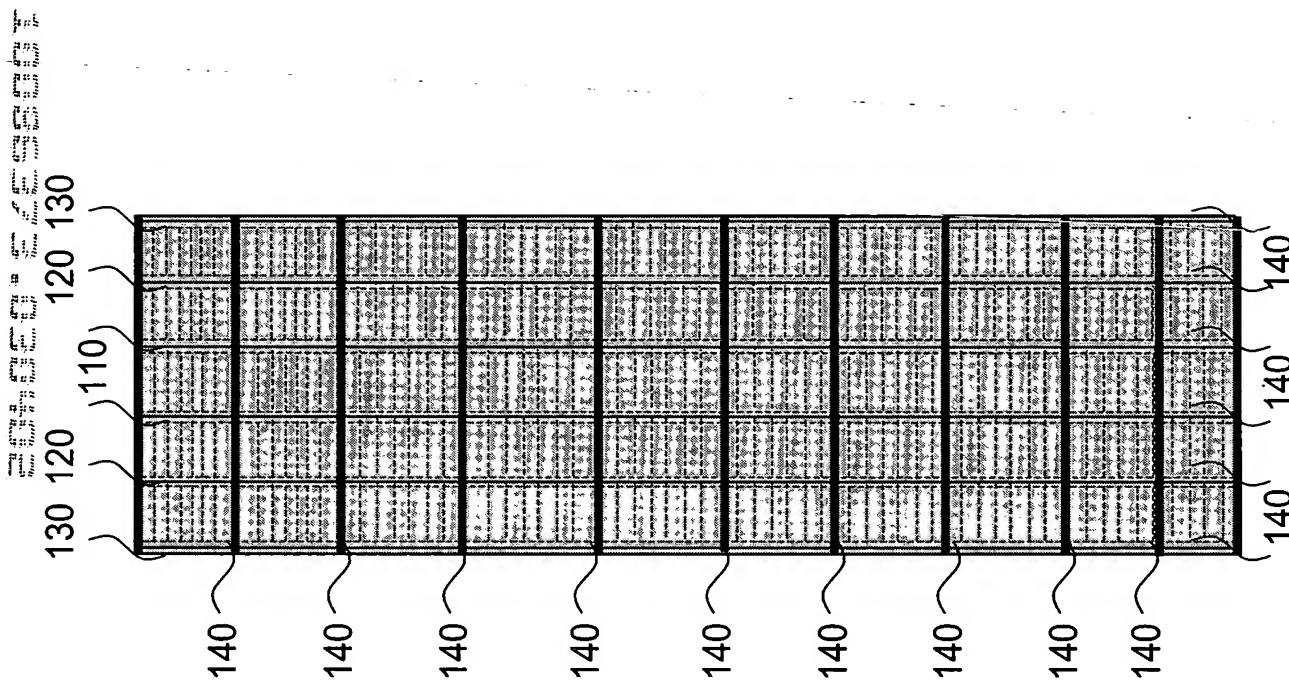
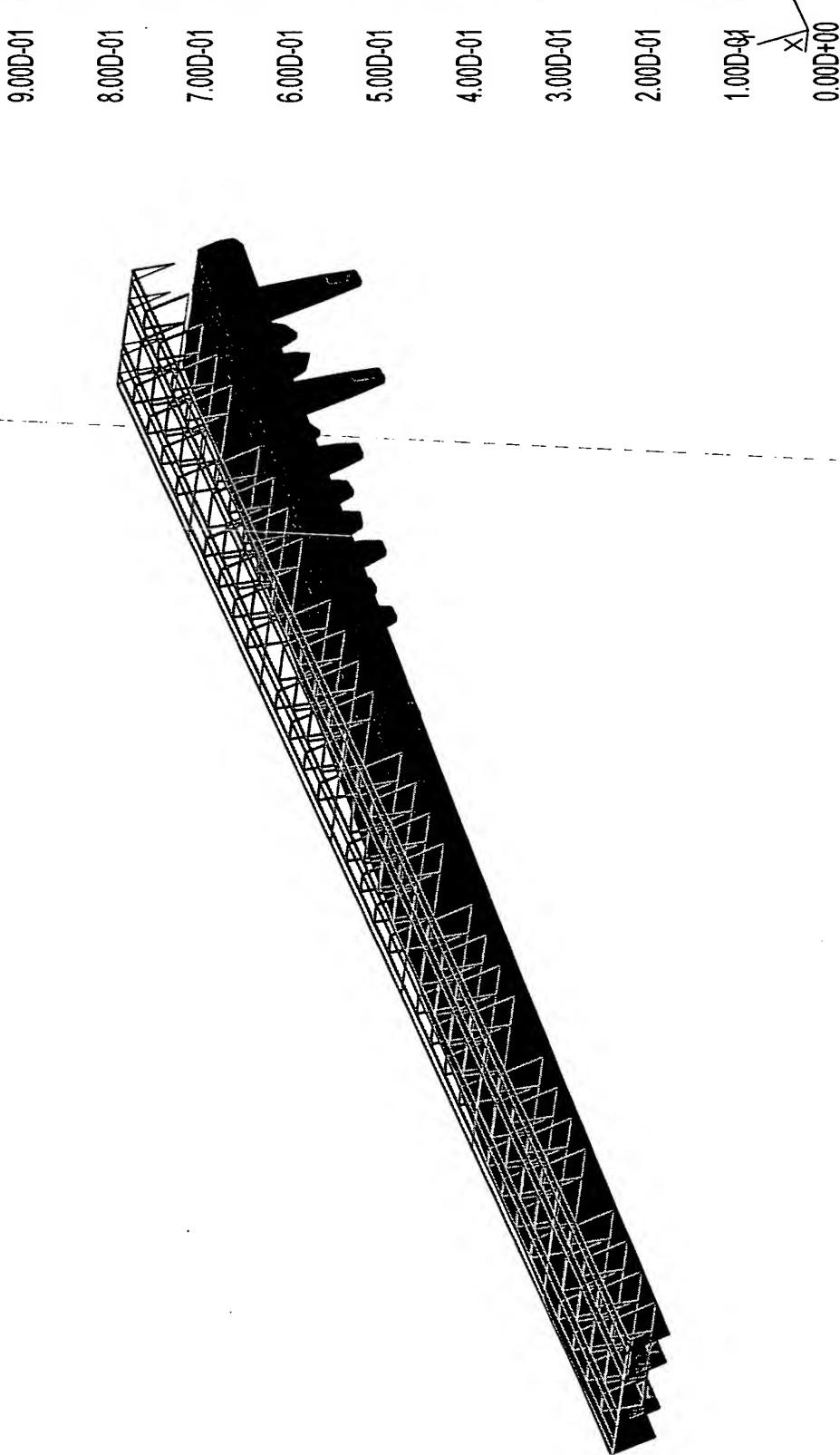


Figure 7

First Fundamental Frequency of 0.48 Hz

RESULTS: 49 FREQU: U480 U13
STRAIN ENERGY - MAG MIN: 0.00E+00 MAX: 1.00E+00
MODE: 29 FREQ: 0.4857015
DISPLACEMENT - MAG MIN: 0.00E+00 MAX: 3.74E+01
CRITERION ABOVE : 0.00E+00

VALUE OPTION ACTUAL
SHELL SURFACE, MIDDLE
1.00D+00



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Inventor: Cary R. CLARK et al.
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Figure 8

First Fundamental Frequency of 0.43 Hz

NUCLEI: 1 FREQ: U430UYZ
STRAIN ENERGY - MAG MIN: 0.00E+00 MAX: 5.35E-01
RESULTS: 1-B.C. 1-NORMAL MODE 1 DISPLACEMENT_1
MODE: 1 FREQ: 0.4360792
DISPLACEMENT - MAG MIN: 0.00E+00 MAX: 7.96E+00
CRITERION: ABOVE : 0.00E+00

VALUE OPTION ACTUAL
SHELL SURFACE: TOP

5.35D-01

4.81D-01

4.28D-01

3.74D-01

3.21D-01

2.67D-01

2.14D-01

1.60D-01

1.07D-01

5.35D-02

0.00D+00

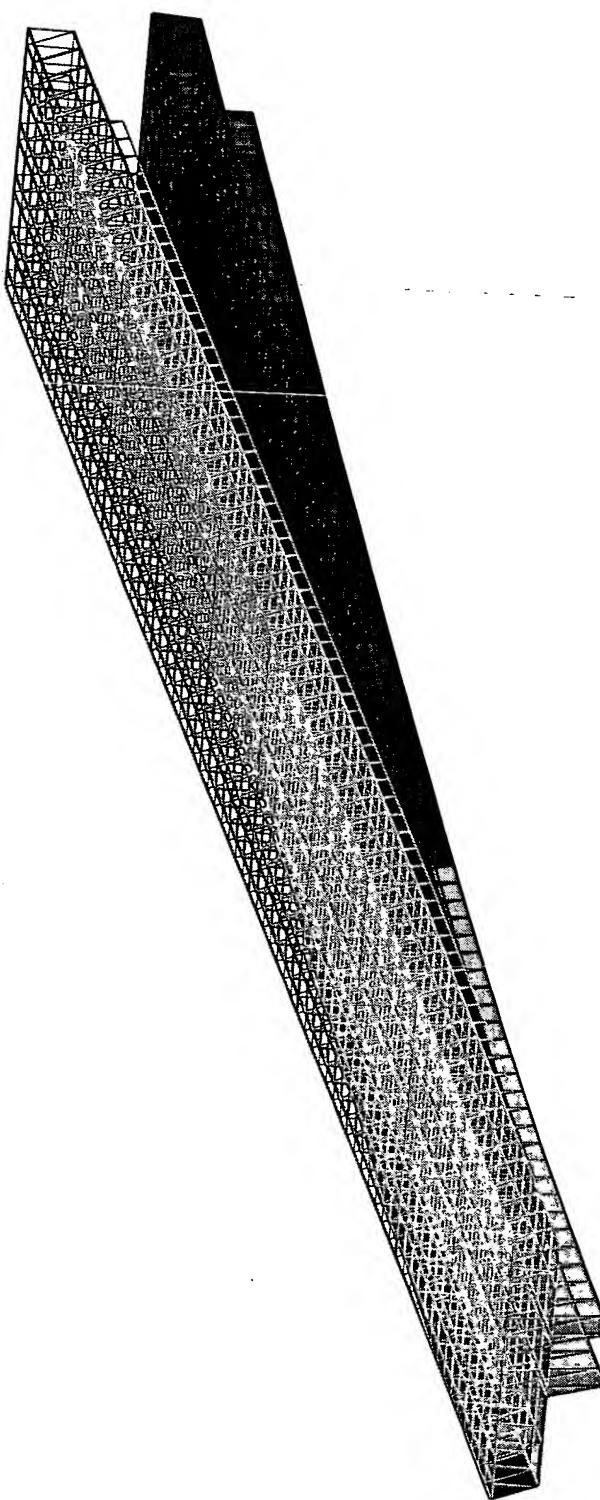


Figure 9

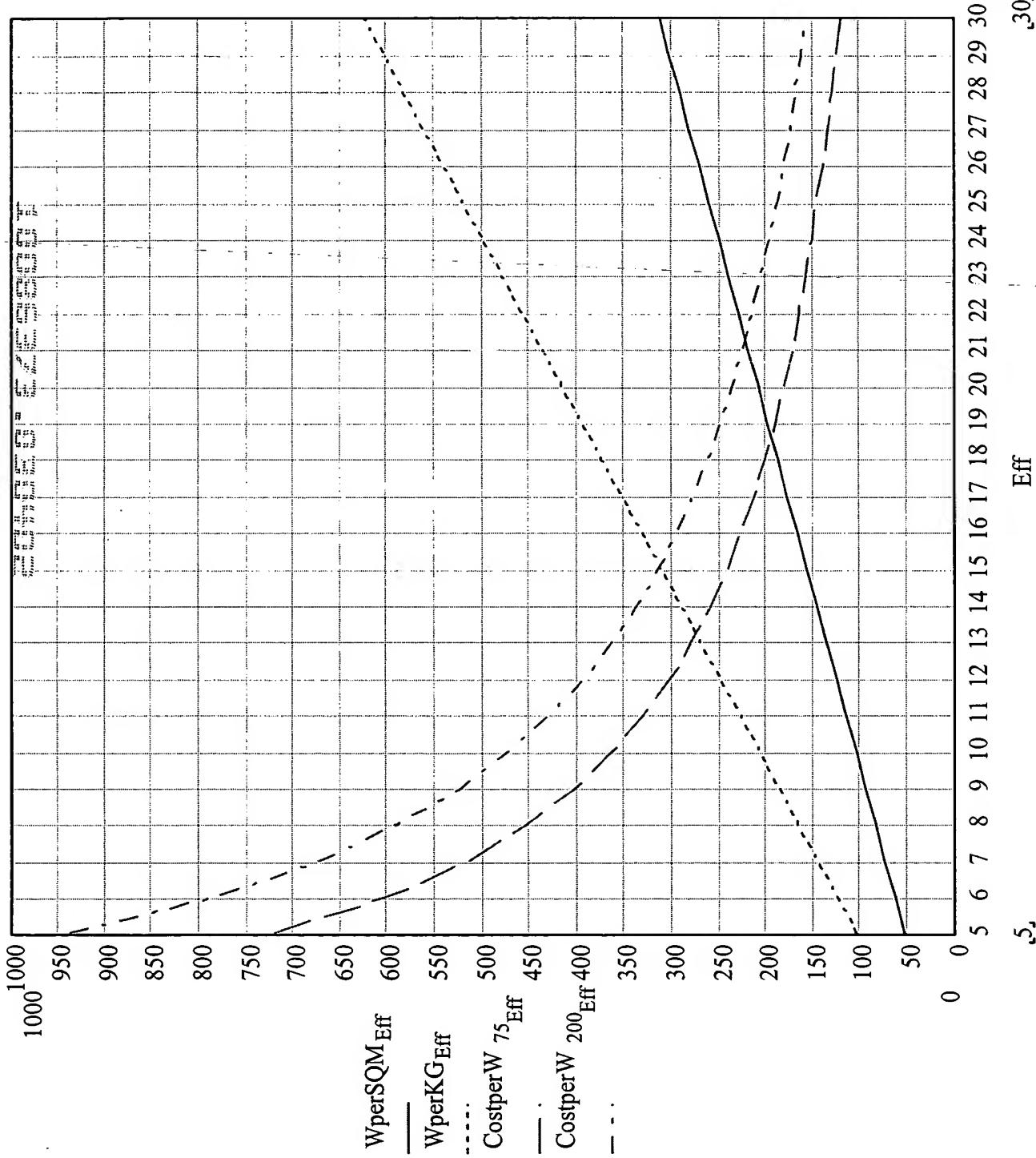


Figure 10

30,

Eff

5,

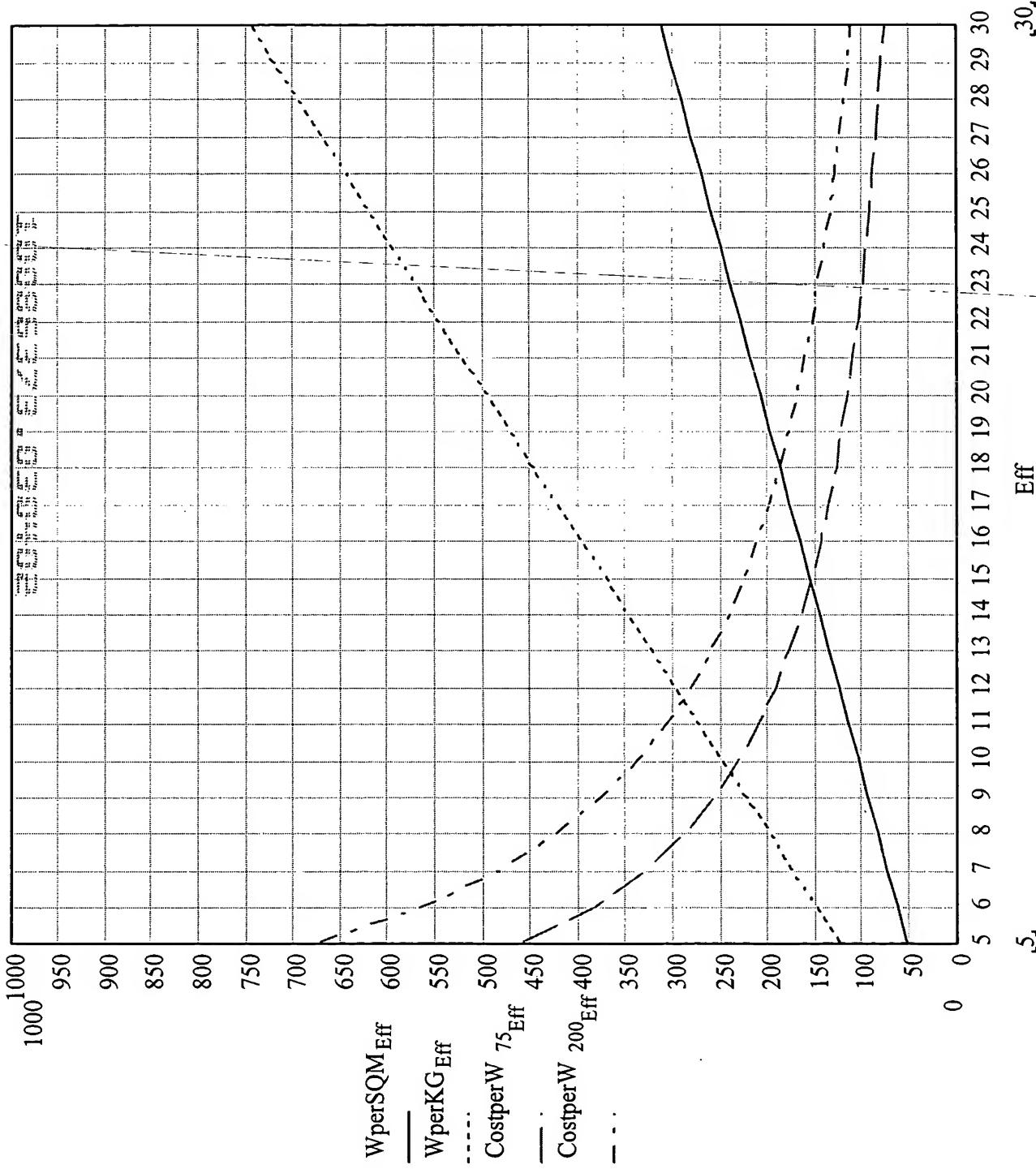


Figure 11

.30.

Eff

5.

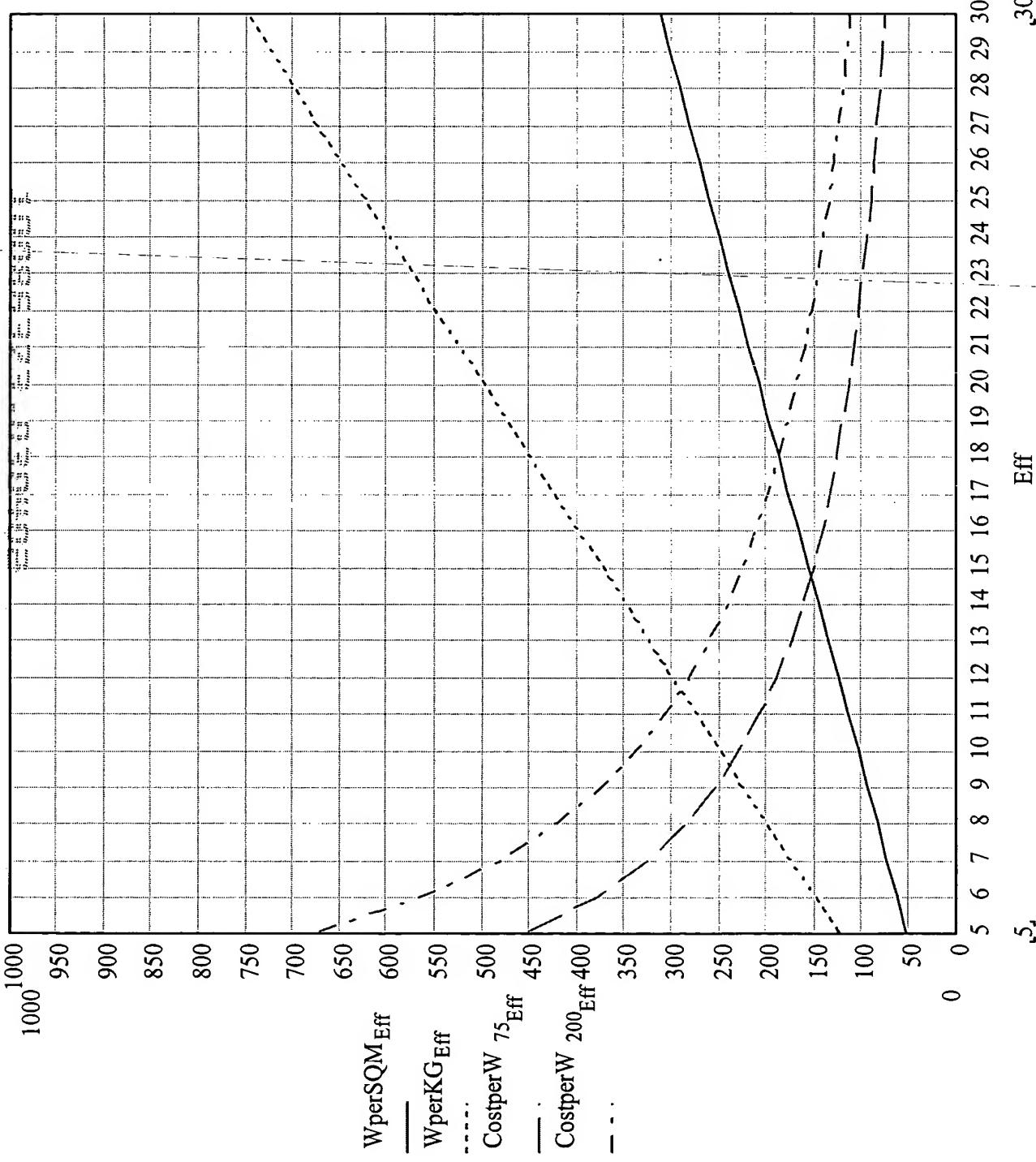


Figure 12

30.

Eff

5.

0